



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CHICAGO REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605



LABORATORY
ACCREDITATION
BUREAU

ACCREDITED ISO/IEC 17025

Certificate # L2280 Testing

Date: 11/17/2017

Subject: Review of Region 5 Data for CSD

To: Water Division, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

From: Colin Breslin, Chemist
US EPA Region 5 Chicago Regional Laboratory

The data transmitted under this cover memo successfully passed CRL's data review procedures as documented in the current Quality Management Plan and applicable Standard Operating Procedures. In accordance with the EPA QA/G-8 *Guidance on Environmental Data Verification and Data Validation* and the U.S. EPA Region 5 RMD QMP, CRL performs data verification on all the data generated internally. CRL does not perform data validation or quality assessment procedures.

This report was reviewed and the information provided herein accurately represents the analysis performed.

X **COLIN BRESLIN** Digitally signed by COLIN BRESLIN
Date: 2017.11.17 11:24:52 -06'00'

Please contact the analyst with any technical report issues, Robert Thompson at (312)-353-9078 for sample project concerns, and Sylvia Griffin at (312)-353-9073 with data transmittal questions. Thank you.

Attached are Results for: CSD

Data Coordinator and Date Transmitted

Analyses included in this report:

BOD



Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5
77 West Jackson Boulevard
Chicago IL, 60604

Project: CSD
Project Number: 01CB2018
Project Manager: Cheryl Burdett

Reported:
Nov-17-17 11:16

Analysis Case Narrative

General Information

Water samples for the analysis of 5-day biochemical oxygen demand (BOD5) were received at the Chicago Regional Laboratory (CRL). The samples met the temperature preservation requirement of less than or equal to 6 °C. The samples were analyzed within the 48 hour hold time. The designated analyst, Colin Breslin, can be reached at 312-886-2912.

The samples were prepared and analyzed according to CRL SOPA AIG006A, Version #3 (based on SM 5210B).

Sample Analysis and Results

The data reported herein meets the requirements referenced in the SOP used for analysis and any laboratory specifications stated in the Quality Assurance Project Plan (QAPP) titled "General Field Sampling Plan for AFO Inspections FY 2018".

The final results for samples with CRL identification numbers 1710017-20, 1710017-21, and 1710017-22 were flagged as "J - The identification of the analyte is acceptable; the reported value is an estimate". The results were estimated because there were no depletions in the sample dilution series that were greater than 2.0 mg/L from the initial dissolved oxygen measurement to the final dissolved oxygen measurement, which is the valid depletion criteria. All other quality control audits were within acceptable limits. The lack of depletion is attributable to little or no biochemical oxygen demand in the samples.

Quality Control

All Quality Control (QC) audits were within CRL limits for the requested analytes or did not result in qualification of the data.



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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S18	1710017-13	Water	Oct-25-17 10:39	Oct-26-17 08:09
S19	1710017-14	Water	Oct-25-17 10:58	Oct-26-17 08:09
S16	1710017-20	Water	Oct-25-17 09:22	Oct-26-17 08:09
S17	1710017-21	Water	Oct-25-17 10:02	Oct-26-17 08:09
B03	1710017-22	Water	Oct-25-17 09:46	Oct-26-17 08:09
D03	1710017-23	Water	Oct-25-17 10:09	Oct-26-17 08:09



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BOD, 5 day, SM 5210 B (modified)
US EPA Region 5 Chicago Regional Laboratory

S18 (1710017-13) Matrix: Water Sampled: Oct-25-17 10:39 Received: Oct-26-17 08:09

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	U			2	mg/L	1	B17J036	Oct-26-17	Oct-26-17

S19 (1710017-14) Matrix: Water Sampled: Oct-25-17 10:58 Received: Oct-26-17 08:09

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	U			2	mg/L	1	B17J036	Oct-26-17	Oct-26-17

S16 (1710017-20) Matrix: Water Sampled: Oct-25-17 09:22 Received: Oct-26-17 08:09

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	2	J		2	mg/L	1	B17J036	Oct-26-17	Oct-26-17

S17 (1710017-21) Matrix: Water Sampled: Oct-25-17 10:02 Received: Oct-26-17 08:09

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	4	J		2	mg/L	1	B17J036	Oct-26-17	Oct-26-17

B03 (1710017-22) Matrix: Water Sampled: Oct-25-17 09:46 Received: Oct-26-17 08:09

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	4	J		2	mg/L	1	B17J036	Oct-26-17	Oct-26-17

D03 (1710017-23) Matrix: Water Sampled: Oct-25-17 10:09 Received: Oct-26-17 08:09

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	13			2	mg/L	1	B17J036	Oct-26-17	Oct-26-17



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Notes and Definitions

- J The identification of the analyte is acceptable; the reported value is an estimate.
- * This Quality Control measure meets the requirements of the CRL SOP for this analyte.
- U Not Detected
- NR Not Reported
- Q QC limit Exceeded